

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Page: 4  
Report Date:11/17/2008

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Columbus Laboratory	058810503	04/22/02	729	50 (3)	35(702)	521.9	Isoeugenol
Battelle Columbus Laboratory	059902303	03/25/02	729	50 (3)	29(683)	501.9	beta-Myrcene
Battelle Columbus Laboratory	059902005	04/09/03	727	50 (3)	39(685)	514.9	Pulegone
Female							
Battelle Columbus Laboratory	058810503	04/23/02	730	50 (5)	33(699)	339.3	Isoeugenol
Battelle Columbus Laboratory	059902303	03/26/02	730	50 (5)	31(668)	323.8	beta-Myrcene
Battelle Columbus Laboratory	059902005	04/10/03	728	50 (5)	31(682)	341.2	Pulegone

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

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Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male										Female					
#All Organs: Benign Tumors															
Overall Incidence	Total	49/50	(98%)	49/50	(98%)	47/50	(94%)	Total	41/50	(82%)	40/50	(80%)	42/50	(84%)	
		145/150	(96.67%)	Mean	96.67%	SD	2.31%		123/150	(82%)	Mean	82%	SD	2%	
.....															
#All Organs: Malignant Tumors															
Overall Incidence	Total	29/50	(58%)	23/50	(46%)	10/50	(20%)	Total	18/50	(36%)	11/50	(22%)	8/50	(16%)	
		62/150	(41.33%)	Mean	41.33%	SD	19.43%		37/150	(24.67%)	Mean	24.67%	SD	10.26%	
.....															
#All Organs: Malignant and Benign Tumors															
Overall Incidence	Total	50/50	(100%)	50/50	(100%)	47/50	(94%)	Total	46/50	(92%)	45/50	(90%)	44/50	(88%)	
		147/150	(98%)	Mean	98%	SD	3.46%		135/150	(90%)	Mean	90%	SD	2%	
.....															
#All Organs: Hemangioma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
#All Organs: Hemangiosarcoma															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	2/50	(4%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		2/150	(1.33%)	Mean	1.33%	SD	2.31%	
.....															
#All Organs: Hemangiosarcoma or Hemangioma															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	2/50	(4%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		3/150	(2%)	Mean	2%	SD	2%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
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**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route:** GAVAGE  
**Vehicle:** CORN OIL

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**Report Date:**11/17/2008

		Male						Female						
#All Organs: Histiocytic Sarcoma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
#All Organs: Leukemia: Erythrocytic														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#All Organs: Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated														
Overall Incidence	Total	10/50	(20%)	9/50	(18%)	4/50	(8%)	Total	8/50	(16%)	5/50	(10%)	4/50	(8%)
		23/150	(15.33%)	Mean	15.33%	SD	6.43%		17/150	(11.33%)	Mean	11.33%	SD	4.16%
.....														
#All Organs: Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
#All Organs: Mesothelioma: Benign														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#All Organs: Mesothelioma: Benign, Malignant, NOS														
Overall Incidence	Total	3/50	(6%)	2/50	(4%)	2/50	(4%)	Total	0/50	(0%)	1/50	(2%)	1/50	(2%)
		7/150	(4.67%)	Mean	4.67%	SD	1.15%		2/150	(1.33%)	Mean	1.33%	SD	1.15%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied

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Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male												Female					
#All Organs: Mesothelioma: Malignant																	
Overall Incidence	Total	3/50	(6%)	2/50	(4%)	2/50	(4%)	Total	0/50	(0%)	1/50	(2%)	1/50	(2%)			
		7/150	(4.67%)	Mean	4.67%	SD	1.15%		2/150	(1.33%)	Mean	1.33%	SD	1.15%			
#All Organs: Osteoma																	
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%			
#All Organs: Osteosarcoma																	
Overall Incidence	Total	2/50	(4%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		3/150	(2%)	Mean	2%	SD	2%		0/150	(0%)	Mean	0%	SD	0%			
#All Organs: Osteosarcoma or Osteoma																	
Overall Incidence	Total	2/50	(4%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		3/150	(2%)	Mean	2%	SD	2%		0/150	(0%)	Mean	0%	SD	0%			
*Adrenal Cortex: Adenoma																	
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	2/50	(4%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		3/150	(2%)	Mean	2%	SD	2%		0/150	(0%)	Mean	0%	SD	0%			
*Adrenal Cortex: Carcinoma																	
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%			

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#: Denominator is number of animals necropsied

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Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male												Female					
*Adrenal Medulla: Ganglioneuroma																	
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%			
.....																	
*Adrenal Medulla: Hemangioma																	
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)			
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%			
.....																	
*Adrenal Medulla: Pheochromocytoma Benign																	
Overall Incidence	Total	5/50	(10%)	11/50	(22%)	8/50	(16%)	Total	2/50	(4%)	1/50	(2%)	3/50	(6%)			
		24/150	(16%)	Mean	16%	SD	6%		6/150	(4%)	Mean	4%	SD	2%			
.....																	
*Adrenal Medulla: Pheochromocytoma Complex																	
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%			
.....																	
*Adrenal Medulla: Pheochromocytoma Malignant																	
Overall Incidence	Total	3/50	(6%)	2/50	(4%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		5/150	(3.33%)	Mean	3.33%	SD	3.06%		0/150	(0%)	Mean	0%	SD	0%			
.....																	
*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS																	
Overall Incidence	Total	7/50	(14%)	13/50	(26%)	8/50	(16%)	Total	2/50	(4%)	1/50	(2%)	3/50	(6%)			
		28/150	(18.67%)	Mean	18.67%	SD	6.43%		6/150	(4%)	Mean	4%	SD	2%			
.....																	

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Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male							Female							
#Bone: Chondrosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Chondrosarcoma or Chondroma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Chordoma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Osteoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Osteosarcoma														
Overall Incidence	Total	2/50	(4%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		3/150	(2%)	Mean	2%	SD	2%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Osteosarcoma or Osteoma														
Overall Incidence	Total	2/50	(4%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		3/150	(2%)	Mean	2%	SD	2%		0/150	(0%)	Mean	0%	SD	0%
.....														

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Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
<b>*Brain:</b>															
<b>Astrocytoma Malignant</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Brain:</b>															
<b>Ependymoma Benign</b>															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Brain:</b>															
<b>Ependymoma Malignant</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Brain:</b>															
<b>Glioma Malignant</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Brain:</b>															
<b>Granular Cell Tumor Benign</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Brain:</b>															
<b>Medulloblastoma Mal</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

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Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male							Female							
*Brain: Meningioma Malignant														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Brain: Meningioma: Benign, Malignant, NOS														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Brain: Oligodendroglioma Benign														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Brain: Oligodendroglioma Malignant														
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
*Brain: Oligodendroglioma, Glioma, or Astrocytoma														
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	1/50	(2%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)
		3/150	(2%)	Mean	2%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
*Brain: Osteosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



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Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
<b>*Brain:</b>															
<b>Schwannoma Malignant</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Clitoral/Preputial Gland:</b>															
<b>Adenoma</b>															
Overall Incidence	Total	2/50	(4%)	5/50	(10%)	3/50	(6%)	Total	3/48	(6%)	7/50	(14%)	3/50	(6%)	
		10/150	(6.67%)	Mean	6.67%	SD	3.06%		13/148	(8.78%)	Mean	8.75%	SD	4.55%	
.....															
<b>*Clitoral/Preputial Gland:</b>															
<b>Carcinoma</b>															
Overall Incidence	Total	2/50	(4%)	0/50	(0%)	1/50	(2%)	Total	2/48	(4%)	0/50	(0%)	0/50	(0%)	
		3/150	(2%)	Mean	2%	SD	2%		2/148	(1.35%)	Mean	1.39%	SD	2.41%	
.....															
<b>*Clitoral/Preputial Gland:</b>															
<b>Carcinoma or Adenoma</b>															
Overall Incidence	Total	4/50	(8%)	5/50	(10%)	4/50	(8%)	Total	5/48	(10%)	7/50	(14%)	3/50	(6%)	
		13/150	(8.67%)	Mean	8.67%	SD	1.15%		15/148	(10.14%)	Mean	10.14%	SD	4.01%	
.....															
<b>*Clitoral/Preputial Gland:</b>															
<b>Fibrosarcoma</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/48	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/148	(0%)	Mean	0%	SD	0%	
.....															
<b>*Clitoral/Preputial Gland:</b>															
<b>Sarcoma</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/48	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/148	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

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Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

		Male						Female						
*Clitoral/Preputial Gland: Squamous Cell Papilloma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/48	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/148	(0%)	Mean	0%	SD	0%
.....														
#Ear: Neural Crest Tumor														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Esophagus: Fibrosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Esophagus: Lipoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Eye: Amelanotic Melanoma, Benign														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Eye: Melanoma Benign														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male							Female							
#Eye: Melanoma Malignant														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Eye: Schwannoma Malignant														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Harderian Gland: Carcinoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Harderian Gland: Carcinoma or Adenoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Heart: Schwannoma Benign														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
*Heart: Schwannoma Malignant														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male							Female							
#Intestine Large: Colon/Rectum: Adenoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Intestine Large: Colon/Rectum: Carcinoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Intestine Large: Colon/Rectum: Hemangioma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Duodenum: Carcinoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Duodenum: Leiomyoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
#Intestine Small: Jejunum: Carcinoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Intestine Small: Jejunum: Granular Cell Tumor Malignant														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Intestine Small: Jejunum: Leiomyoma														
Overall Incidence	Total	1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Intestine Small: Jejunum: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Intestine Small: Site Unspecified: Carcinoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Intestine Small: Site Unspecified: Carcinoma or Adenoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
#Intestine Small: Site Unspecified: Granular Cell Tumor Malignant														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Intestine Small: Site Unspecified: Leiomyoma														
Overall Incidence	Total	1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Intestine Small: Site Unspecified: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Islets, Pancreatic: Adenoma														
Overall Incidence	Total	4/50 8/150	(8%) (5.33%)	2/50 Mean	(4%) 5.33%	2/50 SD	(4%) 2.31%	Total	0/50 2/150	(0%) (1.33%)	1/50 Mean	(2%) 1.33%	1/50 SD	(2%) 1.15%
.....														
*Islets, Pancreatic: Carcinoma														
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)	1/50 Mean	(2%) 0.67%	0/50 SD	(0%) 1.15%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Islets, Pancreatic: Carcinoma or Adenoma														
Overall Incidence	Total	4/50 9/150	(8%) (6%)	3/50 Mean	(6%) 6%	2/50 SD	(4%) 2%	Total	0/50 2/150	(0%) (1.33%)	1/50 Mean	(2%) 1.33%	1/50 SD	(2%) 1.15%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
<b>*Kidney: Pelvis and Transitional Epithelium: Carcinoma</b>															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma</b>															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Kidney: Pelvis and Transitional Epithelium: Papilloma</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Kidney: Renal Tubule: Adenoma</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Kidney: Renal Tubule: Carcinoma</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Kidney: Renal Tubule: Carcinoma or Adenoma</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
*Kidney: Renal Tubule: Hemangiosarcoma															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Lipoma															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Liposarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Mesenchymal Tumor Benign															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Nephroblastoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
*Kidney: Renal Tubule: Sarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
<b>*Liver: Cholangioma</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Liver: Hemangiosarcoma</b>															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Liver: Hepatocellular Adenoma</b>															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		2/150	(1.33%)	Mean	1.33%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
<b>*Liver: Hepatocellular Carcinoma</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Liver: Hepatocellular Carcinoma or Hepatoblastoma</b>															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
<b>*Liver: Hepatocellular Carcinoma or Hepatocellular Adenoma</b>															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		2/150	(1.33%)	Mean	1.33%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

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Report Date:11/17/2008

Male										Female									
<b>*Liver:</b> Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma																			
		1/50	(2%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total		1/150	(0.67%)	Mean	0.67%	SD	1.15%				
.....																			
<b>*Lung:</b> Alveolar/Bronchiolar Adenoma																			
		3/50	(6%)	3/50	(6%)	0/50	(0%)			1/50	(2%)	4/50	(8%)	2/50	(4%)				
Overall Incidence	Total	6/150	(4%)	Mean	4%	SD	3.46%	Total		7/150	(4.67%)	Mean	4.67%	SD	3.06%				
.....																			
<b>*Lung:</b> Alveolar/Bronchiolar Carcinoma																			
		1/50	(2%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total		0/150	(0%)	Mean	0%	SD	0%				
.....																			
<b>*Lung:</b> Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma																			
		4/50	(8%)	3/50	(6%)	1/50	(2%)			1/50	(2%)	4/50	(8%)	2/50	(4%)				
Overall Incidence	Total	8/150	(5.33%)	Mean	5.33%	SD	3.06%	Total		7/150	(4.67%)	Mean	4.67%	SD	3.06%				
.....																			
<b>*Lung:</b> Hemangiosarcoma																			
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total		0/150	(0%)	Mean	0%	SD	0%				
.....																			
<b>*Lung:</b> Sarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total		0/150	(0%)	Mean	0%	SD	0%				
.....																			

#: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

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Report Date:11/17/2008

Male								Female							
*Lung: Squamous Cell Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
#Lymph Node: Hemangiosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Lymph Node, Mesenteric: Sarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Mammary Gland: Adenoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	2/50	(4%)	
		0/150	(0%)	Mean	0%	SD	0%		2/150	(1.33%)	Mean	1.33%	SD	2.31%	
.....															
#Mammary Gland: Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	4/50	(8%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		4/150	(2.67%)	Mean	2.67%	SD	4.62%	
.....															
#Mammary Gland: Carcinoma or Adenoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	4/50	(8%)	0/50	(0%)	2/50	(4%)	
		0/150	(0%)	Mean	0%	SD	0%		6/150	(4%)	Mean	4%	SD	4%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
#Mammary Gland: Fibroadenoma															
Overall Incidence	Total	4/50	(8%)	0/50	(0%)	1/50	(2%)	Total	26/50	(52%)	17/50	(34%)	21/50	(42%)	
		5/150	(3.33%)	Mean	3.33%	SD	4.16%		64/150	(42.67%)	Mean	42.67%	SD	9.02%	
#Mammary Gland: Fibroma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma															
Overall Incidence	Total	4/50	(8%)	0/50	(0%)	1/50	(2%)	Total	26/50	(52%)	17/50	(34%)	22/50	(44%)	
		5/150	(3.33%)	Mean	3.33%	SD	4.16%		65/150	(43.33%)	Mean	43.33%	SD	9.02%	
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma															
Overall Incidence	Total	4/50	(8%)	0/50	(0%)	1/50	(2%)	Total	28/50	(56%)	17/50	(34%)	22/50	(44%)	
		5/150	(3.33%)	Mean	3.33%	SD	4.16%		67/150	(44.67%)	Mean	44.67%	SD	11.02%	
#Mesentery: Fibrosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
#Mesentery: Hemangiosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
#Mesentery: Lipoma															
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															
#Mesentery: Rhabdomyosarcoma															
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															
*Nose: Adenoma															
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															
*Nose: Chondroma															
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															
*Nose: Squamous Cell Carcinoma															
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)	0/50 Mean	(0%) 0.67%	1/50 SD	(2%) 1.15%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Papilloma Squamous or Papilloma															
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)	1/50 Mean	(2%) 0.67%	0/50 SD	(0%) 1.15%	Total	0/50 1/150	(0%) (0.67%)	1/50 Mean	(2%) 0.67%	0/50 SD	(0%) 1.15%	

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

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Report Date:11/17/2008

Male								Female											
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma																			
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)				
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%					
.....																			
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma																			
		1/50	(2%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	2/50	(4%)	0/50	(0%)				
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total	2/150	(1.33%)	Mean	1.33%	SD	2.31%					
.....																			
#Oral Mucosa: Squamous Cell Carcinoma																			
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)				
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%					
.....																			
#Oral Mucosa: Squamous Cell Papilloma																			
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%					
.....																			
*Ovary: Granulosa Cell Tumor Benign																			
										0/50	(0%)			1/50	(2%)			0/50	(0%)
Overall Incidence								Total	1/150		(0.67%)	Mean		0.67%		SD		1.15%	
.....																			
*Ovary: Granulosa Cell Tumor Malignant																			
										0/50	(0%)			0/50	(0%)			0/50	(0%)
Overall Incidence								Total	0/150		(0%)	Mean		0%		SD		0%	
.....																			

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male					Female					
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS										
Overall Incidence		Total	0/50 1/150	(0%) (0.67%)	1/50 Mean 0.67%		(2%)	0/50 SD 1.15%		(0%)
.....										
*Ovary: Granulosa-Theca Tumor Benign										
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean 0%		(0%)	0/50 SD 0%		(0%)
.....										
*Ovary: Granulosa-Theca Tumor Malignant										
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean 0%		(0%)	0/50 SD 0%		(0%)
.....										
*Ovary: Tubulostromal Adenoma										
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean 0%		(0%)	0/50 SD 0%		(0%)
.....										
*Pancreas: Adenoma										
Overall Incidence		Total	7/50 10/150	(14%) (6.67%)	1/50 Mean 6.67%		(2%)	2/50 SD 6.43%		(4%)
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean 0%		(0%)	0/50 SD 0%		(0%)
.....										
*Pancreas: Carcinoma										
Overall Incidence		Total	1/50 1/150	(2%) (0.67%)	0/50 Mean 0.67%		(0%)	0/50 SD 1.15%		(0%)
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean 0%		(0%)	0/50 SD 0%		(0%)
.....										

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
*Pancreas: Carcinoma or Adenoma															
Overall Incidence	Total	8/50	(16%)	1/50	(2%)	2/50	(4%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		11/150	(7.33%)	Mean	7.33%	SD	7.57%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Pancreas: Mixed Tumor Benign															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Pancreas: Mixed Tumor Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Parathyroid Gland: Adenoma															
Overall Incidence	Total	0/47	(0%)	1/45	(2%)	1/49	(2%)	Total	0/47	(0%)	0/47	(0%)	2/46	(4%)	
		2/141	(1.42%)	Mean	1.42%	SD	1.23%		2/140	(1.43%)	Mean	1.45%	SD	2.51%	
.....															
#Peripheral Nerve: Schwannoma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male										Female					
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma															
		19/50	(38%)	6/50	(12%)	11/50	(22%)			25/50	(50%)	25/50	(50%)	27/50	(54%)
Overall Incidence	Total	36/150	(24%)	Mean	24%	SD	13.11%	Total	77/150	(51.33%)	Mean	51.33%	SD	2.31%	
.....															
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma															
		19/50	(38%)	6/50	(12%)	11/50	(22%)			25/50	(50%)	25/50	(50%)	27/50	(54%)
Overall Incidence	Total	36/150	(24%)	Mean	24%	SD	13.11%	Total	77/150	(51.33%)	Mean	51.33%	SD	2.31%	
.....															
*Pituitary Gland: Pars Intermedia: Adenoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
*Pituitary Gland: Pars Intermedia: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
*Prostate: Adenoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%							
.....														
*Prostate: Carcinoma or Adenoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%							
.....														
*Salivary Glands: Sarcoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/49 0/149	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Salivary Glands: Schwannoma Malignant														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/49 0/149	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Seminal Vesicle: Adenoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%							
.....														
#Skeletal Muscle: Hemangioma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
#Skeletal Muscle: Hemangiosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Lipoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Rhabdomyosarcoma															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Sarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Basal Cell Adenoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F344  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route:** GAVAGE  
**Vehicle:** CORN OIL

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**Report Date:**11/17/2008

Male						Female								
#Skin:														
Basal Cell Adenoma or Basosquamous Tumor Benign														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#Skin:														
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#Skin:														
Basal Cell Carcinoma														
		1/50	(2%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%
.....														
#Skin:														
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)														
		1/50	(2%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%
.....														
#Skin:														
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma														
		1/50	(2%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#Skin:														
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma														
		8/50	(16%)	3/50	(6%)	3/50	(6%)		0/50	(0%)	1/50	(2%)	1/50	(2%)
Overall Incidence	Total	14/150	(9.33%)	Mean	9.33%	SD	5.77%	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

		Male						Female						
#Skin: Fibroma														
Overall Incidence	Total	5/50	(10%)	3/50	(6%)	3/50	(6%)	Total	0/50	(0%)	2/50	(4%)	3/50	(6%)
		11/150	(7.33%)	Mean	7.33%	SD	2.31%		5/150	(3.33%)	Mean	3.33%	SD	3.06%
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma														
Overall Incidence	Total	7/50	(14%)	4/50	(8%)	3/50	(6%)	Total	0/50	(0%)	3/50	(6%)	3/50	(6%)
		14/150	(9.33%)	Mean	9.33%	SD	4.16%		6/150	(4%)	Mean	4%	SD	3.46%
#Skin: Fibrosarcoma														
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
#Skin: Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma														
Overall Incidence	Total	2/50	(4%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)
		3/150	(2%)	Mean	2%	SD	2%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
#Skin: Fibrous Histiocytoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
#Skin: Hemangioma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
#Skin: Hemangiosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Keratoacanthoma															
Overall Incidence	Total	7/50	(14%)	2/50	(4%)	3/50	(6%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		12/150	(8%)	Mean	8%	SD	5.29%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Lipoma															
Overall Incidence	Total	2/50	(4%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		2/150	(1.33%)	Mean	1.33%	SD	2.31%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Liposarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Neural Crest Tumor															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Neural Crest Tumor, Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
#Skin:															
Neurofibroma or Schwannoma benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Neurofibrosarcoma or Schwannoma (malignant or NOS)															
		0/50	(0%)	0/50	(0%)	3/50	(6%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	3/150	(2%)	Mean	2%	SD	3.46%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)															
		0/50	(0%)	0/50	(0%)	3/50	(6%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	3/150	(2%)	Mean	2%	SD	3.46%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Osteosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Sarcoma															
		1/50	(2%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Schwannoma Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
#Skin: Schwannoma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	3/50	(6%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		3/150	(2%)	Mean	2%	SD	3.46%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Squamous Cell Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma															
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		2/150	(1.33%)	Mean	1.33%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Squamous Cell Papilloma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
#Skin: Squamous Cell Papilloma or Papilloma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
#Skin: Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma															
Overall Incidence	Total	7/50	(14%)	2/50	(4%)	3/50	(6%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		12/150	(8%)	Mean	8%	SD	5.29%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
#Skin:															
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma															
		7/50	(14%)	2/50	(4%)	3/50	(6%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	12/150	(8%)	Mean	8%	SD	5.29%	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
#Skin:															
Trichoepithelioma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland:															
Adenoma															
		1/50	(2%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland:															
Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland:															
Carcinoma or Adenoma															
		1/50	(2%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Spinal Cord:															
Astrocytoma Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
#Spinal Cord: Astrocytoma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Spinal Cord: Glioma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Spleen: Fibrosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Spleen: Fibrous Histiocytoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Spleen: Hemangioma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Spleen: Hemangiosarcoma															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	2/50	(4%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		2/150	(1.33%)	Mean	1.33%	SD	2.31%	

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male							Female							
*Spleen: Leiomyosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Spleen: Sarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach: Leiomyosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Carcinoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#Stomach, Forestomach: Squamous Cell Papilloma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
#Stomach, Glandular: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Stomach, Glandular: Lipoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Testes: Adenoma														
Overall Incidence	Total	46/50 139/150	(92%) (92.67%)	47/50 Mean	(94%) 92.67%	46/50 SD	(92%) 1.15%							
.....														
*Thymus: Sarcoma														
Overall Incidence	Total	0/47 0/144	(0%) (0%)	0/47 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/47 0/146	(0%) (0%)	0/49 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Thymus: Thymoma Benign														
Overall Incidence	Total	0/47 0/144	(0%) (0%)	0/47 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/47 0/146	(0%) (0%)	0/49 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Thymus: Thymoma Malignant														
Overall Incidence	Total	0/47 0/144	(0%) (0%)	0/47 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/47 0/146	(0%) (0%)	0/49 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

		Male						Female						
*Thymus:														
Thymoma: Benign, Malignant, NOS														
Overall Incidence	Total	0/47 0/144	(0%) (0%)	0/47 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/47 0/146	(0%) (0%)	0/49 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Thyroid Gland: C-Cell:														
Adenoma														
Overall Incidence	Total	9/50 29/150	(18%) (19.33%)	12/50 Mean	(24%) 19.33%	8/50 SD	(16%) 4.16%	Total	7/50 20/150	(14%) (13.33%)	5/50 Mean	(10%) 13.33%	8/50 SD	(16%) 3.06%
.....														
*Thyroid Gland: C-Cell:														
Carcinoma														
Overall Incidence	Total	6/50 6/150	(12%) (4%)	0/50 Mean	(0%) 4%	0/50 SD	(0%) 6.93%	Total	3/50 3/150	(6%) (2%)	0/50 Mean	(0%) 2%	0/50 SD	(0%) 3.46%
.....														
*Thyroid Gland: C-Cell:														
Carcinoma or Adenoma														
Overall Incidence	Total	15/50 35/150	(30%) (23.33%)	12/50 Mean	(24%) 23.33%	8/50 SD	(16%) 7.02%	Total	9/50 22/150	(18%) (14.67%)	5/50 Mean	(10%) 14.67%	8/50 SD	(16%) 4.16%
.....														
*Thyroid Gland: Follicular Cell:														
Adenoma														
Overall Incidence	Total	1/50 2/150	(2%) (1.33%)	1/50 Mean	(2%) 1.33%	0/50 SD	(0%) 1.15%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Thyroid Gland: Follicular Cell:														
Carcinoma														
Overall Incidence	Total	1/50 3/150	(2%) (2%)	2/50 Mean	(4%) 2%	0/50 SD	(0%) 2%	Total	1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%

.....  
\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma															
Overall Incidence	Total	2/50	(4%)	3/50	(6%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		5/150	(3.33%)	Mean	3.33%	SD	3.06%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
#Tissue NOS: Lipoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Tissue NOS: Paraganglioma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Tissue NOS: Schwannoma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Tongue: Squamous Cell Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male							Female							
#Tongue: Squamous Cell Papilloma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#Tooth: Adamantinoma Malignant														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Tooth: Odontoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
*Urinary Bladder: Carcinoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder: Carcinoma or Papilloma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder: Leiomyosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female							
*Urinary Bladder: Papilloma															
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)	1/50 Mean	(2%) 0.67%	0/50 SD	(0%) 1.15%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															
#Uterus: Adenoma															
Overall Incidence	Total							0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%		
.....															
#Uterus: Carcinoma															
Overall Incidence	Total							0/50 1/150	(0%) (0.67%)	1/50 Mean	(2%) 0.67%	0/50 SD	(0%) 1.15%		
.....															
#Uterus: Deciduoma Benign															
Overall Incidence	Total							1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%		
.....															
#Uterus: Hemangioma															
Overall Incidence	Total							0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%		
.....															
#Uterus: Hemangiosarcoma															
Overall Incidence	Total							0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%		
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

	Male				Female			
#Uterus: Leiomyoma								
Overall Incidence	Total	0/50 0/150	(0%) (0%)		0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
#Uterus: Leiomyosarcoma								
Overall Incidence	Total	0/50 0/150	(0%) (0%)		0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
#Uterus: Polyp Stromal								
Overall Incidence	Total	8/50 21/150	(16%) (14%)		8/50 Mean	(16%) 14%	5/50 SD	(10%) 3.46%
#Uterus: Sarcoma Stromal								
Overall Incidence	Total	0/50 0/150	(0%) (0%)		0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
#Uterus: Sarcoma Stromal or Polyp Stromal								
Overall Incidence	Total	8/50 21/150	(16%) (14%)		8/50 Mean	(16%) 14%	5/50 SD	(10%) 3.46%
#Uterus: Schwannoma Malignant								
Overall Incidence	Total	0/50 0/150	(0%) (0%)		0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Nov2008  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female					
#Vagina: Polyp											
Overall Incidence		Total	1/50 1/150	(2%) (0.67%)	0/50 Mean 0.67%	(0%)	0/50 SD 1.15%	(0%)			
.....											
#Vagina: Sarcoma											
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean 0%	(0%)	0/50 SD 0%	(0%)			
.....											
#Zymbal's Gland: Adenoma											
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean 0%	(0%)	0/50 SD 0%	(0%)	0/50 SD 0%	(0%)	
.....											
#Zymbal's Gland: Carcinoma											
Overall Incidence		Total	2/50 2/150	(4%) (1.33%)	0/50 Mean 1.33%	(0%)	0/50 SD 2.31%	(0%)	0/50 Mean 0.67%	1/50 SD 1.15%	(2%)
.....											
#Zymbal's Gland: Carcinoma or Adenoma											
Overall Incidence		Total	2/50 2/150	(4%) (1.33%)	0/50 Mean 1.33%	(0%)	0/50 SD 2.31%	(0%)	0/50 Mean 0.67%	1/50 SD 1.15%	(2%)
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied